

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

CORRECTED VERSION

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
27 May 2004 (27.05.2004)

PCT

(10) International Publication Number  
WO 2004/043988 A3

(51) International Patent Classification<sup>7</sup>: C07K 14/47,  
16/32, A61K 39/00, C12Q 1/68

(21) International Application Number:  
PCT/EP2003/012638

(22) International Filing Date:  
12 November 2003 (12.11.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
MI2002A002412  
14 November 2002 (14.11.2002) IT

(71) Applicant (for all designated States except US): ISTI-  
TUTO NAZIONALE PER LO STUDIO E LA CURA  
DEI TUMORI [IT/TT]; Via Venezian, 1, I-20133 Milano  
(IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): CASTELLI, Chiara  
[IT/TT]; Via Venezian, 1, I-20133 Milano (IT). PARMI-  
ANI, Giorgio [IT/TT]; Via Venezian, 1, I-20133 Milano  
(IT).

(74) Agents: BANFI, Paolo et al.; Bianchetti Bracco Minoja  
S.r.l., Via Plinio, 63, I-20129 Milano (IT).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR,  
CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,  
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,  
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN,  
MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU,  
SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,  
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (BW, GH,  
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,  
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,  
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:  
14 October 2004

(48) Date of publication of this corrected version:  
26 May 2005

(15) Information about Correction:  
see PCT Gazette No. 21/2005 of 26 May 2005, Section II

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: PTPRK IMMUNOGENIC PEPTIDE

(57) Abstract: An immunogenic peptide isolated from PTPRK protein represents a novel HLA II restricted epitope recognized by CD4+T cells and is used in cancer immunotherapy or diagnosis.

WO 2004/043988 A3